



PHIL-25213

May 3, 2013

Project Number 04635

Mr. Brad White (3HS22)
U.S. Environmental Protection Agency (EPA) Region 3
1650 Arch Street
Philadelphia, Pennsylvania 19103-2029

Reference: Remedial Action Contract - EPA Region 3
EPA Contract Number EP-S3-07-04

Subject: Final Round 2 ISCO Injection Approach
Valmont TCE Site
Long-Term Remedial Action (LTRA)
EPA Work Assignment No. 052-LTRA-031M

Dear Mr. White:

This letter provides information regarding future implementation of the in-situ chemical oxidation (ISCO) remedy to address contaminated groundwater attributable to the site. For ease of implementation, only Table 1 has been provided as part of the final Round 2 ISCO injection approach. This version supersedes the version of Table 1 included in our April 29, 2013 submittal.

Table 1 has been updated to reflect discussions held with EPA on May 3, 2013. The approach recommends the injection of roughly 9,200 gallons of oxidant solution into up to 17 wells and 19 intervals. Tetra Tech has not proposed well E-8 as part of this round.

Copies of this letter are being sent to Mindi Snoparsky and Bruce Rundell of EPA and Len Zelinka of PADEP. Please contact me if you have any questions or comments.

Sincerely,

A handwritten signature in black ink that reads 'Neil Teamerson'.

Neil Teamerson
Project Manager

NT/pg

Attachment

c: Bruce Rundell (EPA Region 3)
Mindi Snoparsky (EPA Region 3)
Len Zelinka (PADEP)
Vince Shickora (Tetra Tech)
File No. 3

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TABLE 1
FINAL ROUND 2 ISCO INJECTION APPROACH
VALMONT TCE SITE
WEST HAZLETOWN BOROUGH AND HAZLE TOWNSHIP, PENNSYLVANIA

WELL	INJECTION VOLUME (gallons)	INTERVALS (in feet bgs)		TCE CONCENTRATION (µg/L)	COMMENTS
E-1	1,089	20-40	NA	780	Double packer setup; <i>eliminated one interval</i>
E-2	1,452	32-52	90-110	220	Double packer setup; <i>added one new interval</i>
E-3	545	40-60	NA	500 (assumed)	Double packer setup
E-4	1,090	30-50	NA	1,600	Double packer setup; <i>eliminated one interval</i>
E-5	726	43-63	NA	92	Double packer setup; <i>eliminated one interval</i> (4)
E-6	726	30-50	NA	500 (assumed)	Indoors; double packer setup
E-7	1,089	18-38	40-60	160	Double packer setup; increased volume
E-8	NA	NA	NA	NA	Injections not anticipated
E-9	545	30-40	NA	1,600	Indoors; single or double packer setup
MW-10A	136	36-46	NA	710	Single packer setup
MW-11S	136	44-54	NA	3,100	Single packer setup
MW-11D	136	96-106	NA	370	Single packer setup
MW-12S	177	45-58	NA	1,200	Single packer setup
MW-13S	204	20-35	NA	300J	Single packer setup
MW-13I	136	78-88	NA	140	Single packer setup
MW-18S	545	16-36	NA	540	Single packer setup; added new well and one interval
MW-22D	136	294-304	NA	260 (assumed)	Single packer setup
MW-28S	272	35-45	NA	870 (assumed)	Single packer setup
TOTAL	9,140				
(1) First tanker for wells E-1, E-2, E-4, and E-7 (up to 4,720 gallons of 10% oxidant solution).					
(2) Second tanker for all other wells (up to 4,420 gallons of 10% solution).					
(3) Priority wells have TCE concentrations >750 µg/L, including wells E-1, E-4, E-9, MW-11S, and MW-12S.					
(4) Last injection will be at well E-5.					